Hydraulics & Pneumatics 1966 Editorial Index

AEROSPACE EQUIPMENT, INCLUDING GSE

Airborne Flow Indicator is Contamination-Tolerant
By Rudolph Petersen Aug p 127
Air Motors Ease Rigging of Aircraft Arresting Gear-Fluid Power in Action Jun. p 42
Charge Many Accumulators From One Location
By J. R. Crissey Oct. p 155
Combined Landing Gear & Speed Brake Systems Solve Location Problem
By P. J. Slover Dec. p 98
Dirty Oil: The Discovery & Application of the Winslow Effect
By Gene Lindberg Sep. p 144
Electric-Field Valves Inside Clyinder Control Vibrator
By Halvor T. Strandrud Sep. p 139
Filters—Aerospace Products Jan. p 265
Fitting an Accumulator to APU Starting Requirements
By Edward Brennison and Nicholas S. Hodska May p 131
Horizontal Tail Servoactuator Keeps It Up
By W. O. Lee Dec. p 88
Hot Aircraft—Cool Hydraulics
By N. N. Pass Dec. p 92
Hydraulic Gimbaling in Space
By M. J. Hamilton Nov. p 119
Hydraulics Floats Apollo/Saturn V Apr. p 141
Hydraulic Tube Flaring Meets Space Age Demands—Fluid Power in Action May p 38
Hypro-Mechanical Servo Sweeps F-111 Wings
By R. C. Alden Dec. p 77
Launcher Pressure Surges Studied on Simulator
By A. Wade Brock Mar. p 118
My Gal Sal Out of Cold Storage Mar. p 117
Nitrogen Powers Little Joe's Open Hydraulic System
By Ronald S. Oberst July p 121
Pilots Report—Brakes A-OK
By Darwin K. White Dec. p 102
Spoilers—Hydraulics in Aerospace
By R. N. Parsons Dec. p 95
The Buffalo: A Plane with Tactical Hydraulics
By Frederick R. Cracknell Feb. p 94
The F-111 Hydraulic Power Distribution
By W. H. Watson Dec. p 82
The F-111 Power Supply
By W. H. Watson Dec. p 84
The First Brazed Aircraft Hydraulic System
By John C. Bloom and Norman F. Robinson Jun. p 115
Voltage Blocks, Releases Flow in Valveless Vibrator Jul. p 126
Which Servo System for Missile Control? By H. J. Dickinson Oct. p 129

AIR COMPRESSORS, VACUUM PUMPS & ASSOCIATED EQUIPMENT

Air Motors & Compressors—Fluid Power Products Review Jan. p 152
Air Motors Ease Rigging of Aircraft Arresting Gear—Fluid Power in Action Jun. p 42
Compressors & Vacuum Pumps—Quick Guide to Product Selection Jan. p 95
onditioning Your Compressed Air, Part 1—Compressors & Associated Equipment Mar. p 81
Conditioning Your Compressed Air, Part 2—Dryers & Dehydrators
By Tobi Goldoftas May p 104
Conditioning Your Compressed Air, Part 3—Distribution Systems & Accessories
By Tobi Goldoftas July p 106
Conditioning Your Compressed Air, Part 4—Air Line Filters & Lubricators
By Edwin Jacobs Oct. p 142
Conditioning Your Compressed Air, Part 5—Know Your Pressure Regulators
By Edwin Jacobs Nov. p 89
Dehydrators, Air—Quick Guide to Product Selection Jan. p 100

ASSOCIATION & TECHNICAL MEETINGS, SURVEYS, STANDARDS

ASA Approves NFPA Tubing Standards May p 52
Annual Review of Technical Literature July p 83
Control Valve Standards Feb. p 30
Design Engineering Show & Conference Apr. p 107
NCFP Sponsors Fluid Power Eduction at IIT Jan. p 72
NFPA Looks at Safety Jan. p 66
National Conference on Fluid Power Abstracts Oct. p 110
Southern Industry Fluid Power Confererence & Exhibit Sep. p 41
Tighter Standards Ahead for Aerospace Fittings? Apr. p 144

BASIC TECHNOLOGY

Add a Component to Your Compressed Air System?
By Lloyd M. Polentz Sep. p 117
Analogies Between Electrical and Fluid Logic Control Elements
By Juergen H. Lueth Nov. p 95
Conditioning Your Compressed Air, Part 1—Compressors & Associated Equipment Mar. p 81
Conditioning Your Compressed Air, Part 2—Dryers & Dehydrators
By Tobi Goldoftas May p 104
Conditioning Your Compressed Air, Part 3—Distribution Systems & Accessories
By Tobi Goldoftas July p 106
Conditioning Your Compressed Air, Part 4—Air Line Filters & Lubricators
By Edwin Jacobs Oct. p 142
Conditioning Your Compressed Air, Part 5—Know Your Pressure Regulators
By Edwin Jacobs Nov. p 89
Cushioning in Pneumatic Cylinders
By Henry H. Flock July p 110
Design of a Hydraulic Drive for a Computer Memory
By Howell C. Lowe Oct. p 122
Designing a Fluidic Control System
By W. F. Gesell May p 117
Designing Open-Loop On-Off Actuators
By R. Wendell Goodwin Oct. p 148
Diagram Analysis Simplifies System Design
By Philip F. Hall Apr. p 95
Dirty Oil: The Discovery & Application of the Winslow Effect
By Gene Lindberg Sep. p 144
Equivalent Line Lengths for Friction Losses of Fittings and Valves
By Robert L. Peters, PHD Sep. p 128
Fitting an Accumulator to APU Starting Requirements
By Edward Brennison and Nicholas S. Hodska May p 131
How Compression Set Affects O-Ring Selection
By C. R. St. Amour Apr. p 132
How Pressure Drop & Pipe Lengths Affect Air Flow
By Lloyd M. Polentz Mar. p 110
Improving Servo Performance
By Joseph L. Poggie Mar. p 87
Launcher Pressure Surges Studied on Simulator
By A. Wade Brock Mar. p 118
Let's Design a Variable Speed Rotary Drive—Part 1
By Roy R. Golze May p 125
Let's Design a Variable-Speed Rotary Drive—Part 2
By Roy R. Golze Sep. p 103
et's Look at Fluidics, Part 3—What Can Fluidics Do?
By Henry Lefer Feb. p 77
New Materials for Seals, Part 1
By Edwin Jacobs Aug. p 119
Nomograph: Determining Friction of Air in Steel Pipe
By Frank Caplan May p 114
Pneumatic Logic at Work: Priority Circuits
By E. L. Holbrook Apr. p 136
Polymer Chemistry Explains Plastics and Elastomers
By Dr. Maurice Morton Aug. p 120
Rotating Casing Shrinks Size and Weight of Hydroplanetary Gyrobrake
By M. Shachter Sep. p 120
Six Steps to Machine Analysis for Fluid Power Design
By Russ Henke Oct. p 136
The First Fluidic-Controlled Locomotive

Hydraulics & Pneumatics 1966 Editorial Index

AEROSPACE EQUIPMENT, INCLUDING GSE

Airborne Flow Indicator is Contamination-Tolerant
By Rudolph Petersen Aug p 127
Air Motors Ease Rigging of Aircraft Arresting Gear-Fluid Power in Action Jun. p 42
Charge Many Accumulators From One Location
By J. R. Crissey Oct. p 155
Combined Landing Gear & Speed Brake Systems Solve Location Problem
By P. J. Slover Dec. p 98
Dirty Oil: The Discovery & Application of the Winslow Effect
By Gene Lindberg Sep. p 144
Electric-Field Valves Inside Clyinder Control Vibrator
By Halvor T. Strandrud Sep. p 139
Filters—Aerospace Products Jan. p 265
Fitting an Accumulator to APU Starting Requirements
By Edward Brennison and Nicholas S. Hodska May p 131
Horizontal Tail Servoactuator Keeps It Up
By W. O. Lee Dec. p 88
Hot Aircraft—Cool Hydraulics
By N. N. Pass Dec. p 92
Hydraulic Gimbaling in Space
By M. J. Hamilton Nov. p 119
Hydraulics Floats Apollo/Saturn V Apr. p 141
Hydraulic Tube Flaring Meets Space Age Demands—Fluid Power in Action May p 38
Hypro-Mechanical Servo Sweeps F-111 Wings
By R. C. Alden Dec. p 77
Launcher Pressure Surges Studied on Simulator
By A. Wade Brock Mar. p 118
My Gal Sal Out of Cold Storage Mar. p 117
Nitrogen Powers Little Joe's Open Hydraulic System
By Ronald S. Oberst July p 121
Pilots Report—Brakes A-OK
By Darwin K. White Dec. p 102
Spoilers—Hydraulics in Aerospace
By R. N. Parsons Dec. p 95
The Buffalo: A Plane with Tactical Hydraulics
By Frederick R. Cracknell Feb. p 94
The F-111 Hydraulic Power Distribution
By W. H. Watson Dec. p 82
The F-111 Power Supply
By W. H. Watson Dec. p 84
The First Brazed Aircraft Hydraulic System
By John C. Bloom and Norman F. Robinson Jun. p 115
Voltage Blocks, Releases Flow in Valveless Vibrator Jul. p 126
Which Servo System for Missile Control? By H. J. Dickinson Oct. p 129

AIR COMPRESSORS, VACUUM PUMPS & ASSOCIATED EQUIPMENT

Air Motors & Compressors—Fluid Power Products Review Jan. p 152
Air Motors Ease Rigging of Aircraft Arresting Gear—Fluid Power in Action Jun. p 42
Compressors & Vacuum Pumps—Quick Guide to Product Selection Jan. p 95
onditioning Your Compressed Air, Part 1—Compressors & Associated Equipment Mar. p 81
Conditioning Your Compressed Air, Part 2—Dryers & Dehydrators
By Tobi Goldoftas May p 104
Conditioning Your Compressed Air, Part 3—Distribution Systems & Accessories
By Tobi Goldoftas July p 106
Conditioning Your Compressed Air, Part 4—Air Line Filters & Lubricators
By Edwin Jacobs Oct. p 142
Conditioning Your Compressed Air, Part 5—Know Your Pressure Regulators
By Edwin Jacobs Nov. p 89
Dehydrators, Air—Quick Guide to Product Selection Jan. p 100

ASSOCIATION & TECHNICAL MEETINGS, SURVEYS, STANDARDS

ASA Approves NFPA Tubing Standards May p 52
Annual Review of Technical Literature July p 83
Control Valve Standards Feb. p 30
Design Engineering Show & Conference Apr. p 107
NCFP Sponsors Fluid Power Eduction at IIT Jan. p 72
NFPA Looks at Safety Jan. p 66
National Conference on Fluid Power Abstracts Oct. p 110
Southern Industry Fluid Power Confererence & Exhibit Sep. p 41
Tighter Standards Ahead for Aerospace Fittings? Apr. p 144

BASIC TECHNOLOGY

Add a Component to Your Compressed Air System?
By Lloyd M. Polentz Sep. p 117
Analogies Between Electrical and Fluid Logic Control Elements
By Juergen H. Lueth Nov. p 95
Conditioning Your Compressed Air, Part 1—Compressors & Associated Equipment Mar. p 81
Conditioning Your Compressed Air, Part 2—Dryers & Dehydrators
By Tobi Goldoftas May p 104
Conditioning Your Compressed Air, Part 3—Distribution Systems & Accessories
By Tobi Goldoftas July p 106
Conditioning Your Compressed Air, Part 4—Air Line Filters & Lubricators
By Edwin Jacobs Oct. p 142
Conditioning Your Compressed Air, Part 5—Know Your Pressure Regulators
By Edwin Jacobs Nov. p 89
Cushioning in Pneumatic Cylinders
By Henry H. Flock July p 110
Design of a Hydraulic Drive for a Computer Memory
By Howell C. Lowe Oct. p 122
Designing a Fluidic Control System
By W. F. Gesell May p 117
Designing Open-Loop On-Off Actuators
By R. Wendell Goodwin Oct. p 148
Diagram Analysis Simplifies System Design
By Philip F. Hall Apr. p 95
Dirty Oil: The Discovery & Application of the Winslow Effect
By Gene Lindberg Sep. p 144
Equivalent Line Lengths for Friction Losses of Fittings and Valves
By Robert L. Peters, PHD Sep. p 128
Fitting an Accumulator to APU Starting Requirements
By Edward Brennison and Nicholas S. Hodska May p 131
How Compression Set Affects O-Ring Selection
By C. R. St. Amour Apr. p 132
How Pressure Drop & Pipe Lengths Affect Air Flow
By Lloyd M. Polentz Mar. p 110
Improving Servo Performance
By Joseph L. Poggie Mar. p 87
Launcher Pressure Surges Studied on Simulator
By A. Wade Brock Mar. p 118
Let's Design a Variable Speed Rotary Drive—Part 1
By Roy R. Golze May p 125
Let's Design a Variable-Speed Rotary Drive—Part 2
By Roy R. Golze Sep. p 103
et's Look at Fluidics, Part 3—What Can Fluidics Do?
By Henry Lefer Feb. p 77
New Materials for Seals, Part 1
By Edwin Jacobs Aug. p 119
Nomograph: Determining Friction of Air in Steel Pipe
By Frank Caplan May p 114
Pneumatic Logic at Work: Priority Circuits
By E. L. Holbrook Apr. p 136
Polymer Chemistry Explains Plastics and Elastomers
By Dr. Maurice Morton Aug. p 120
Rotating Casing Shrinks Size and Weight of Hydroplanetary Gyrobrake
By M. Shachter Sep. p 120
Six Steps to Machine Analysis for Fluid Power Design
By Russ Henke Oct. p 136
The First Fluidic-Controlled Locomotive

By Charles H. Meyer and Richard S. Gluskin June p 85
Toward Excellence in System Design: A Case Study
By Irving Kublin July p 101
Use Air Pilot Circuits for Memory
By Reginald John Bailey Nov. p 101
Valve Prevents Fluid Mixing Between Systems
By J. R. Crissey and W. A. Lansing Apr. p 146
What You Should Know About Indicating Filters
By Tobi Goldoftas Nov. p 110
What You Should Know About O-Rings
By Frank Butler June p 109
What You Should Know About Seal Compounds
By Luke Hiltner Mar. p 94

CIRCUIT DESIGN

Add a Component to Your Compressed Air System?
By Lloyd M. Polentz Sep. p 117
Adding Vibration to Linear Motion
By James H. Meyer Apr. p 130
Air Does all the Work in Automatic Assembly Machine
By Alfred J. Jacobs July p 114
Cam Valves Control Pneumatic Car Wash
By Christian Doerschlag Feb. p 72
Combination Transmission Lets Truck Go Fast and Slow
By G. R. Di Dio Mar. p 92
Combined Landing Gear/Speed Brake Systems Solve Location Problem
By P. J. Slover Dec. p 98
Cylinder Brake is Failsafe
By Earle F. Allen Feb. p 84
Design of a Hydraulic Drive for a Computer Memory
By Howell C. Lowe Oct. p 122
Designing a Fluidic Control System
By W. F. Gesell May p 117
Diagram Analysis Simplifies System Design
By Philip F. Hall Apr. p 95
Differential Pilot Valves Solve Vibration Problems
By Robert W. Strohmeyer Apr. p 128
Digital Techniques in Fluid Power Engineering
By J. C. Wells Sep. p 108
Hydraulics Produce Radiation Bursts
By Kurt Pollak Nov. p 104
Hydrostatic Drive Gives Small Aircraft Tractor a Mighty Pull
By A. J. O'Brien May p 93
Hypro-Mechanical Servo Sweeps F-111 Wings
By R. C. Alden Dec. p 77
Instrument Air Controls High Thrust Hydraulic Actuator
By E. F. Hoiben June p 91
Interlock Valve Makes Pressure Tester Safe
By Kenneth Payne Apr. p 93
Let's Design a Variable Speed Rotary Drive—Part 1
By Roy R. Golze Sep. p 103
Let's Design a Variable-Speed Rotary Drive—Part 2
By Roy R. Golze Sept. p 103
Let's Look at Fluidics, Part 3—What Can Fluidics Do?
By Henry Lefer Feb. p 77
Make-Up Oil Keeps Cylinders Synchronized
By Robert M. Broomall May p 101
Nitrogen Powers Little Joe's Open Hydraulic System
By Ronald S. Oberst July p 121
Optimum Sequencing with Pressure and Limit Switches
By Albert Pistorius June p 94
Pneumatic Cam Valves Regulate Grinder Feed
By W. Garberding May p 98
Pneumatic Logic at Work: Priority Circuits
By E. L. Holbrook Apr. p 136
Pressure Switches Sequence Framing Press
By Joseph S. Lohman Sept. p 106
Rotating Casing Shrinks Size and Weight of Hydroplanetary Gyrobrake
By M. Shachter Sep. p 120
Ship's Cargo Boom Swings to Hydraulic Tune
By William E. Hesse and Paul Carr Apr. p 89
Simple Pneumatic Circuit Wraps Complex Shapes
By Alfred C. Monaghan Sept. p 135
The First Fluidic-Controlled Locomotive
By Charles H. Meyer and Richard S. Gluskin June p 85
Toward Excellence in System Design: A Case Study
By Irving Kublin July p 101
Use Air Pilot Circuits for Memory
By Reginald John Bailey Nov. p 101
Valve Prevents Fluid Mixing Between Systems
By J. R. Crissey and W. A. Lansing Apr. p 146

COMPONENTS (See also specific components)

Accessories—Aerospace Products Jan. p 260
Accumulator Resets Plow Bottoms—Fluid Power in Action Oct. p 44
Accumulators—Quick Guide to Product Selection Jan. p 91
Air-Driven Oil Pump for Pressures to 10,000 psi—Fluid Power in Action June p 40
Air Motors & Compressors—Fluid Power Products Review Jan. p 152
Cam Valves Control Pneumatic Car Wash
By Christian Doerschlag Feb. p 72
Charge Many Accumulators From One Location
By J. R. Crissey Oct. p 155
Compressors & Vacuum Pumps—Quick Guide to Product Selection Jan. p 95
Control Valve Standards Feb. p 30
Counterbalance Valve Gives Winch Dynamic Braking—Fluid Power in Action Apr. p 34
Couplings, Quick-Connect—Quick Guide to Product Selection Jan. p 130
Cylinders, Air & Oil—Quick Guide to Product Selection Jan. p 96
Cylinders, Rotary Actuators & Intensifiers—Fluid Power Products Review Jan. p 156
Dehydrators, Air—Quick Guide to Product Selection Jan. p 100
Electrical Controls & Motors—Fluid Power Products Review Jan. p 168
Filters—Aerospace Products Jan. p 265
Filters, Air—Quick Guide to Product Selection Jan. p 92
Filters, Air Regulators, Lubricators & Dryers—Fluid Power Products Review Jan. p 176
Filters, Hydraulic—Quick Guide to Product Selection Jan. p 113
Fitting an Accumulator to APU Starting Requirements
By Edward Brennison and Nicholas S. Hodska May p 131
Fittings, Hose—Quick Guide to Product Selection Jan. p 112
Fittings, Tube & Port—Quick Guide to Product Selection Jan. p 138
Fluidic Devices—Fluid Power Products Review Jan. p 192
Fluidic Devices—Quick Guide to Product Selection Jan. p 111
Fluids, Hydraulic—Quick Guide to Product Selection Jan. p 115
Gauges, Indicators, & Test Equipment—Fluid Power Products Review Jan. p 194
Gauges, Pressure—Quick Guide to Product Selection Jan. p 125
Heat Exchangers—Quick Guide to Product Selection Jan. p 111
Hose Assemblies—Quick Guide to Product Selection Jan. p 112
Intensifiers, Hand Pumps, & Air-Powered Pumps—Quick Guide to Product Selection Jan. p 119
Joints, Rotating & Swivel—Quick Guide to Product Selection Jan. p 133
Lubricators, Air Line—Quick Guide to Product Selection Jan. p 94
Motors, Air—Quick Guide to Product Selection Jan. p 116
Motors, Hydraulic—Quick Guide to Product Selection Jan. p 117
New Materials for Seals, Part 1
By Edwin Jacobs Aug. p 119
PC Pump Helps Despense Concrete—Fluid Power in Action July p 28
Packaged Air Compressors Supply Entire Plant—Fluid Power in Action Sept. p 26
Piping Components & Tools—Fluid Power Products Review Jan. p 200
Power Units, Fluids, & Reservoirs—Fluid Power Products Review Jan. p 210
Pressure-Compensated Pump Pushes Auger Evenly—Fluid Power in Action Apr. p 22
Pumps, Fluid Motors, & Accumulators—Fluid Power Products Review Jan. p 216
Pumps, Hydraulic—Quick Guide to Product Selection Jan. p 127
Pumps, Motors, & Air Compressors—Aerospace Products Jan. p 270
Radial Fluid Motors Bore 17-ft-dia. Hole
By John A. Lankester Apr. p 125
Rotary Actuators—Quick Guide to Product Selection Jan. p 132
Seals & Packings—Fluid Power Products Review Jan. p 224
Seals, Scrapers, Back-Up Rings & Boots—Quick Guide to Product Selection Jan. p 134
Seals, Tubing, & Connectors—Aerospace Products Jan. p 274
Servovalves—Quick Guide to Product Selection Jan. p 137
Shock Absorbers—Quick Guide to Product Selection Jan. p 131
Switches, Pressure—Quick Guide to Product Selection Jan. p 126
Trunnion Cylinder Can Take Side Thrusts to 10,000 lb—Fluid Power in Action Mar. p 32
Tubing, Line & Cylinder—Quick Guide to Product Selection Jan. p 118
Valves—Aerospace Products Jan. p 279
Valves, Air & General Purpose—Fluid Power Products Review Jan. p 233
Valves, Directional Control—Quick Guide to Product Selection Jan. p 101
Valves, Flow Control—Quick Guide to Product Selection Jan. p 107
Valves, Hydraulic—Fluid Power Products Review Jan. p 244
Valves, Pressure Control—Quick Guide to Product Selection Jan. p 120
What You Should Know About Indicating Filters
By Tobi Goldoftas Nov. p 110
What You Should Know About O-Rings
By Frank Butler June p 109

CYLINDERS, SHOCK ABSORBERS, INTENSIFIERS

Air Cylinder Controls Power Punch—Fluid Power in Action Oct. p 42
Air Cylinder Controls Transfer Unit—Fluid Power in Action Aug. p 22

Air Cylinder Eliminates Oil Spatter—Fluid Power in Action Sep. p 26
Air Does all the Work in Automatic Assembly Machine
By Alfred J. Jacobs July p 114
Clutch Converts Cylinder's Reciprocal Motion to One-Way Motion—Fluid Power in Action Mar. p 26
Cushioning in Pneumatic Cylinders
By Henry H. Flock July p 110
Cylinder Brake is Failsafe
By Earle F. Allen Feb. p 84
Cylinders, Air & Oil—Quick Guide to Product Selection Jan. p 96
Cylinders, Rotary Actuators & Intensifiers—Fluid Power Products Review Jan. p 156
Differential Pilot Valves Solve Vibration Problems
By Robert W. Strohmeyer Apr. p 128
Electric-Field Valves Inside Cylinder Control Vibrator
By Halvor T. Strandrud Sep. p 139
Hydraulic Excavator Has No Transmission—Fluid Power in Action Feb. p 24
Hydraulic Suspension Stabilizes Cargo Loader
By Alex Bloch June p 102
Intensifiers, Hand Pumps, & Air-Powered Pumps—Quick Guide to Product Selection Jan. p 119
Pressure Switches Sequence Framing Press
By Joseph S. Lohman Sep. p 106
Ship's Cargo Boom Swings to Hydraulic Tune
By William E. Hesse and Paul Carr Apr. p 89
Shock Absorbers—Quick Guide to Product Selection Jan. p 131
Shock Absorbers Stop Missile Test Platform—Fluid Power in Action Nov. p 26
Six Steps to Machine Analysis for Fluid Power Design
By Russ Henke Oct. p 136
Trunnion Cylinder Can Take Side Thrusts to 10,000 lb—Fluid Power in Action Mar. p 32
Using an 18-ft-stroke Cylinder—Fluid Power in Action Apr. p 30
Variable/Fixed Pumps Advance Tunneling Machine
By A. L. Gustafson June p 96

ELECTRIC MOTORS & CONTROLS

Designing Open-Loop On-Off Actuators
By R. Wendell Goodwin Oct. p 148
Diagram Analysis Simplifies System Design
By Philip F. Hall Apr. p 95
Differential Pilot Valves Solve Vibration Problems
By Robert W. Strohmeyer Apr. p 128
Digital Techniques in Fluid Power Engineering
By J. C. Wells Sept. p 108
Electric-Field Valves Inside Cylinder Control Vibrator
By Halvor T. Strandrud Sep. p 139
Electrical Controls & Motors—Fluid Power Products Review Jan. p 168
Flow Divider Spreads Salt Electrically—Fluid Power in Action Oct. p 38
Fluidic Relay Controls Line Pressure-Fluid Power in Action June p 34
Fluidics Made Easy: A Conveyor Control System
By Carlos Pinkstaff Mar. p 90
Fluid Motors Drive Tracking Antenna—Fluid Power in Action Nov. p 32
Horizontal Tail Servoactuator Keeps It Up
By W. O. Lee Dec. p 88
Hydraulic Gimbaling in Space
By M. J. Hamilton Nov. p 119
Hydraulics Produce Radiation Bursts
By Kurt Pollak Nov. p 104
Instrument Air Controls High Thrust Hydraulic Actuator
By E. F. Holben June p 91
Metal-Stamping Press has Pneumatic Logic—Fluid Power in Action Feb. p 20
Pneumatic Circuit Times Work Cycle—Fluid Power in Action Oct. p 30
Remote Air Pushbuttons Control Hydraulic Circuit
By William H. Lucas July p 116
Servovalve/Photosensor Guidance System for Machine Tracking Head
By B. Wm. Long June p 100
Switches, Pressure—Quick Guide to Product Selection Jan. p 126
Use Air Pilot Circuits for Memory
By Reginald John Bailey Nov. p 101

FLUIDS, FILTERS, RESERVOIRS, HEAT EXCHANGERS

Dirty Oil: The Discovery & Application of the Winslow Effect
By Gene Lindberg Sep. p 144
Dry Air Helps Drill Precision Holes—Fluid Power in Action June p 32
Filter Keeps Turret Lathe Working—Fluid Power in Action Mar. p 38
Filters—Aerospace Products Jan. p 265
Filters, Hydraulic—Quick Guide to Product Selection Jan. p 113
Fire-Resistant Fluid Boosts Safety in Stamping Plant-Fluid Power in Action Mar. p 18
Fluids, Hydraulic—Quick Guide to Product Selection Jan. p 115
Heat Exchangers—Quick Guide to Product Selection Jan. p 111
Hot Aircraft—Cool Hydraulics
By N. N. Pass Dec. p 92
How They're Filtering Mobile Equipment Hydraulics Sep. p 99
How We Converted to Water-Emulsion Fluid
By Walter M. Schrey Mar. p 113
Make-Up Oil Keeps Cylinders Synchronized
By Robert M. Broomall May p 101
Manifold Helps Cool Machine's Hydraulic Fluid—Fluid Power in Action Aug. p 20
Power Units, Fluids, & Reservoirs—Fluid Power Products Review Jan. p 210
Voltage Blocks, Releases Flow in Valveless Vibrator July p 126
What You Should Know About Indicating Filters
By Tobi Goldoftas Nov. p 110
What's the Cost of Using Fire-Resistant Fluids?
By Harry Jones Sep. p 131

FLUID MOTORS, ROTARY ACTUATORS (HYDRAULIC & PNEUMATIC) & HYDROSTATIC TRANSMISSIONS

Combination Transmission Lets Truck Go Fast and Slow
By G. R. Di Dio Mar. p 92
Combined Landing Gear & Speed Brake Systems Solve Location Problem
By P. J. Slover Dec. p 98
Cylinders, Rotary Actuators & Intensifiers—Fluid Power Products Review Jan. p 156
Fluid Motor Drives Hob Head of Gear Cutter—Fluid Power in Action June p 31
Fluid Motors Drive Tracking Antenna—Fluid Power in Action Nov. p 32
Fluid Motors Actuate Vibrator's Compaction Shoes—Fluid Power in Action June p 22
Fluid Motors Operate 200-Ton Shiploader—Fluid Power in Action Feb. p 20
Hydraulics Gives Mixer Infinite Drum Speeds—Fluid Power in Action July p 22
Hydrostatic Drive for Front Wheels—Fluid Power in Action Feb. p 22
Hydrostatic Drive for Small Boats—Fluid Power in Action May p 30
Hydrostatic Drive Gives Small Aircraft Tractor a Mighty Pull
By A. J. O'Brien May p 93
Let's Design A Variable Speed Rotary Drive—Part 1
By Roy R. Golze May p 125
Let's Design a Variable-Speed Rotary Drive—Part 2
By Roy R. Golze Sep. p 103
Motors, Air—Quick Guide to Product Selection Jan. p 116
Motors, Hydraulic—Quick Guide to Product Selection Jan. p 117
Pressure Switches Sequence Framing Press
By Joseph S. Lohman Sep. p 106
Pumps, Fluid Motors, & Accumulators—Fluid Power Products Review Jan. p 216
Pumps, Motors, & Air Compressors—Aerospace Products Jan. p 270
Radial Fluid Motors Bore 17-ft-dia. Hole
By John A. Lankester Apr. p 125
Remote Air Pushbuttons Control Hydraulic Circuit
By William H. Lucas July p 116
Rotary Actuator Helps Spray Weed Killers—Fluid Power in Action Nov. p 26
Rotary Actuator is Versatile Turner—Fluid Power in Action June p 40
Rotary Actuators—Quick Guide to Product Selection Jan. p 132
Rotating Casing Shrinks Size and Weight of Hydroplanetary Gyrobrake
By M. Shachter Sep. p 120
Ship's Cargo Boom Swings to Hydraulic Tune
By William E. Hesse and Paul Carr Apr. p 89
Vane Motor Drives Mobile Earth Drill—Fluid Power in Action Nov. p 28

FLUIDICS

Analogies Between Electrical and Fluid Logic Control Elements
By Juergen H. Lueth Nov. p 95
Designing a Fluidic Control System
By W. F. Gesell May p 117
Experiment with Fluidics Laboratory—Fluid Power in Action Nov. p 24
Fluidic Control for Tapping Machine—Fluid Power in Action May p 36
Fluidic Devices—Fluid Power Products Review Jan. p 192
Fluidic Devices—Quick Guide to Product Selection Jan. p 111
Fluidic Relay Controls Line Pressure—Fluid Power in Action June p 34
Fluidics Actuates Artificial Heart—Fluid Power in Action Mar. p 24
Fluidics Controls Twist Drill Milling—Fluid Power in Action June p 44
Fluidics Made Easy: A Conveyor Control System
By Carlos Pinkstaff Mar. p 90
Let's Look at Fluidics, Part 3—What Can Fluidics Do?
By Henry Lefer Feb. p 77
The First Fluidic-Controlled Locomotive
By Charles H. Meyer and Richard S. Gluskin June p 85
Vortex Amplifier for Fluidic Applications—Fluid Power in Action Oct. p 26

MACHINE TOOLS

Air Cylinder Controls Transfer Unit—Fluid Power in Action Aug. p 22
Air Cylinder Eliminates Oil Spatter—Fluid Power in Action Sep. p 26
Flow Divider Spreads Salt Electrically—Fluid Power in Action Oct. p 38
Machine Tool Fluid Power Today
By Allan E. Morris Feb. p 65
Manifold Helps Cool Machine's Hydraulic Fluid—Fluid Power in Action Aug. p 20
Metal-Stamping Press has Pneumatic Logic—Fluid Power in Action Feb. p 20
Remote Air Pushbuttons Control Hydraulic Circuit
By William H. Lucas July p 116
Servovalve/Photosensor Guidance System for Machine Tracking Head
By B. Wm. Long June p 100
Simple Pneumatic Circuit Wraps Complex Shapes
By Alfred C. Monaghan Sep. p 135
Solenoid Valves Control Indexing Slide Table—Fluid Power in Action Aug. p 30
Versatile Air Valve Times Forging Machine
By Ray Kull Mar. p 105
What You Should Know About Indicating Filters
By Tobi Goldoftas Nov. p 110

MOBILE & MARINE EQUIPMENT

Accumulator Resets Plow Bottoms—Fluid Power in Action Oct. p 44
Combination Transmission Lets Truck Go Fast and Slow
By G. R. Di Dio Mar. p 92
Counterbalance Valve Gives Winch Dynamic Braking—Fluid Power in Action Apr. p 34
Fluid Motors Actuate Vibrator's Compaction Shoes—Fluid Power in Action June p 22
Fluid Motors Operate 200-Ton Shiploader—Fluid Power in Action Feb. p 20
How They're Filtering Mobile Equipment Hydraulics Sep. p 99
Hydraulic Excavator has no Transmission—Fluid Power in Action Feb. p 24
Hydraulics Gives Mixer Infinite Drum Speeds—Fluid Power in Action July p 22
Hydrostatic Drive for Front Wheels—Fluid Power in Action Feb. p 22
Hydrostatic Drive for Small Boats—Fluid Power in Action May p 30
Hydrostatic Drive Gives Small Aircraft Tractor a Mighty Pull
By A. J. O'Brien May p 93
Let's Design a Variable Speed Rotary Drive—Part 1
By Roy R. Golze May p 125
Let's Design a Variable-Speed Rotary Drive—Part 2
By Roy R. Golze Sep. p 103
PC Pump Helps Dispense Concrete—Fluid Power in Action July p 28
Pneumatic Circuit Times Work Cycle—Fluid Power in Action Oct. p 30
Pressure-Compensated Pump Pushes Auger Evenly—Fluid Power in Action Apr. p 22
Radial Fluid Motors Bore 17-ft-dia. Hole
By John A. Lankester Apr. p 125
Rotary Actuator Helps Spray Weed Killers—Fluid Power in Action Nov. p 26
Rotary Actuator is Versatile Turner—Fluid Power in Action June p 40
Rotating Casing Shrinks Size and Weight of Hydroplanetary Gyrobrake
By M. Shachter Sep. p 120
Ship's Cargo Boom Swings to Hydraulic Tune
By William E. Hesse and Paul Carr Apr. p 89
Six Steps to Machine Analysis for Fluid Power Design
By Russ Henke Oct. p 136
The First Fluidic-Controlled Locomotive
By Charles H. Meyer and Richard S. Gluskin June p 85
Three Pumps Supply Hydraulic Crane—Fluid Power in Action June p 28
Valve Improves Hydraulic Braking System—Fluid Power in Action Aug. p 20
Vane Motor Drives Mobile Earth Drill—Fluid Power in Action Nov. p 28
Variable/Fixed Pumps Advance Tunneling Machine
By A. L. Gustafson June p 96
What You Should Know About Indicating Filters
By Tobi Goldoftas Nov. p 110

PACKINGS AND SEALS

How Compression Set Affects O-Ring Selection
By C. R. St. Amour Apr. p 132
New Materials for Seals, Part 1
By Edwin Jacobs Aug. p 119
Polymer Chemistry Explains Plastics and Elastomers
By Dr. Maurice Morton Aug. p 120
Seals & Packings—Fluid Power Products Review Jan. p 224
Seals, Scrapers, Back-Up Rings & Boots—Quick Guide to Product Selection Jan. p 134
Seals, Tubing, & Connectors—Aerospace Products Jan. p 274
What You Should Know About O-Rings
By Frank Butler June p 109
What You Should Know About Seal Compounds
By Luke Hiltner Mar. p 94

PIPING

Couplings, Quick-Connect—Quick Guide to Product Selection Jan. p 130
Equivalent Line Lengths for Friction Losses of Fittings and Valves
By Robert L. Peters, Phd. Sep. p 128
Fittings, Hose—Quick Guide to Product Selection Jan. p 112
Fittings, Tube & Port—Quick Guide to Product Selection Jan. p 138
Hose Assemblies—Quick Guide to Product Selection Jan. p 112
Hydraulic Tube Flaring Meets Space Age Demands—Fluid Power in Action May p 38
Joints, Rotating & Swivel—Quick Guide to Product Selection Jan. p 133
Manifold Helps Cool Machine's Hydraulic Fluid—Fluid Power in Action Aug. p 20
Nomograph: Determining Friction of Air in Steel Pipe
By Frank Caplan May p 114
Piping Components & Tools—Fluid Power Products Review Jan. p 200
Seals, Tubing, & Connectors—Aerospace Products Jan. p 274
The First Brazed Aircraft Hydraulic System
By John C. Bloom and Norman F. Robinson June p 115
Tubing, Line & Cylinder—Quick Guide to Product Selection Jan. p 118
Valve Prevents Fluid Mixing Between Systems
By J. R. Crissey and W. A. Lansing Apr. p 146

PNEUMATICS (Includes air filters, lubricators, dryers)

Add a Component to Your Compressed Air System?
By Lloyd M. Polentz Sept. p 117
Air Cylinder Controls Power Punch—Fluid Power in Action Oct. p 42
Air Cylinder Controls Transfer Unit—Fluid Power in Action Aug. p 22
Air Does All the Work in Automatic Assembly Machine
By Alfred J. Jacobs July p 114
Air-Driven Oil Pump for Pressures to 10,000 psi—Fluid Power in Action June p 40
Air Gun Dispenses Materials Under Pressure—Fluid Power in Action June p 30
Air Motors & Compressors—Fluid Power Products Review Jan. p 152
Analogies Between Electrical and Fluid Logic Control Elements
By Juergen H. Lueth Nov. p 95
Cam Valves Control Pneumatic Car Wash
By Christian Doerschlag Feb. p 72
Charge Many Accumulators From One Location
By J. R. Crissey Oct. p 155
Clutch Converts Cylinder's Reciprocal Motion to One-Way Motion—Fluid Power in Action Mar. p 26
Conditioning Your Compressed Air, Part 1—Compressors & Associated Equipment Mar. p 81
Conditioning Your Compressed Air—Part 2, Dryers & Dehydrators
By Tobi Goldoftas May p 104
Conditioning Your Compressed Air—Part 3, Distribution Systems & Accessories
By Tobi Goldoftas July p 106
Conditioning Your Compressed Air—Part 4, Air Line Filters & Lubricators
By Edwin Jacobs Oct. p 142
Conditioning Your Compressed Air—Part 5, Know Your Pressure Regulators
By Edwin Jacobs Nov. p 89
Cooling Fan Blades Have Pneumatic Variable Pitch Control—Fluid Power in Action Mar. p 38
Cushioning in Pneumatic Cylinders
By Henry H. Flock July p 110
Dehydrators, Air—Quick Guide to Product Selection Jan. p 100
Diagram Analysis Simplifies System Design
By Philip F. Hall Apr. p 95
Differential Pilot Valves Solve Vibration Problems
By Robert W. Strohmeyer Apr. p 128
Dry Air Helps Drill Precision Holes—Fluid Power in Action June p 32
Filters, Air—Quick Guide to Product Selection Jan. p 92
Filters, Air Regulators, Lubricators & Dryers—Fluid Power Products Review Jan. p 176
How Pressure Drop & Pipe Lengths Affect Air Flow
By Lloyd M. Polentz Mar. p 110
Instrument Air Controls High Thrust Hydraulic Actuator
By E. F. Holben June p 91
Interlock Valve Makes Pressure Tester Safe
By Kenneth Payne Apr. p 93
Lubricators, Air Line—Quick Guide to Product Selection Jan. p 94
Metal-Stamping Press has Pneumatic Logic—Fluid Power in Action Feb. p 20
Nitrogen Powers Little Joe's Open Hydraulic System
By Ronald S. Oberst July p 121

Packaged Air Compressors Supply Entire Plant—Fluid Power in Action Sept. p 26
Pneumatic Cam Valves Regulate Grinder Feed
By W. Garberding May p 98
Pneumatic Logic at Work: Priority Circuits
By E. L. Holbrook Apr. p 136
Simple Pneumatic Circuit Wraps Complex Shapes
By Alfred C. Monaghan Sep. p 135
Toward Excellence in System Design: A Case Study
By Iring Kublin July p 101
Use Air Pilot Circuits for Memory
By Reginald John Bailey Nov. p 101
Versatile Air Valve Times Forging Machine
By Ray Kull Mar. p 105

PRODUCTION EQUIPMENT (Including central hydraulic systems)

Accumulators Store Hydraulic Power—Fluid Power in Action Nov. p 26
Air Cylinder Eliminates Oil Spatter—Fluid Power in Action Sept. p 26
Air Gun Dispenses Materials Under Pressure—Fluid Power in Action June p 30
Cam Valves Control Pneumatic Car Wash
By Christian Doerschlag Feb. p 72
Clutch Converts Cylinder's Reciprocal Motion to One-Way Motion—Fluid Power in Action Mar. p 26
Cooling Fan Blades have Pneumatic Variable Pitch Control—Fluid Power in Action Mar. p 38
Counterbalance Valve Gives Winch Dynamic Braking—Fluid Power in Action Apr. p 34
Cylinder Brake is Failsafe
By Earle F. Allen Feb. p 84
Design of a Hydraulic Drive for a Computer Memory
By Howell C. Lowe Oct. p 122
Designing a Reciprocating Pump With Fluid Power
By Everett A. Krute June p 106
Differential Pilot Valves Solve Vibration Problems
By Robert W. Strohmeyer Apr. p 128
Dual Pumps Drive Pulp Baler—Fluid Power in Action Mar. p 28
Filter Keeps Turret Lathe Working—Fluid Power in Action Mar. p 38
Fire-Resistant Fluid Boosts Safety in Stamping Plant—Fluid Power in Action Mar. p 18
Fluidic Control for Tapping Machine—Fluid Power in Action May p 36
Fluidics Controls Twist Drill Milling—Fluid Power in Action June p 44
Fluidics Made Easy: A Conveyor Control System
By Carlos Pinkstaff Mar. p 90
Fluid Motor Drives Hob Head of Gear Cutter—Fluid Power in Action June p 31
Fluid Motors Operate 200-Ton Shiploader—Fluid Power in Action Feb. p 20
How we Converted to Water-Emulsion Fluid
By Walter M. Schrey Mar. p 113
Interlock Valve Makes Pressure Tester Safe
By Kenneth Payne Apr. p 93
Let's Design a Variable Speed Rotary Drive—Part 1
By Roy R. Golze May p 125
Let's Design a Variable-Speed Rotary Drive—Part 2
By Roy R. Golze Sep. p 103
Machine Tool Fluid Power Today
By Allan E. Morris Feb. p 65
Make-Up Oil Keeps Cylinders Synchronized
By Robert M. Broomall May p 101
Optimum Sequencing with Pressure and Limit Switches
By Albert Pistorius June p 94
PC Pump Helps Dispense Concrete—Fluid Power in Action July p 28
Packaged Air Compressors Supply Entire Plant—Fluid Power in Action Sep. p 26
Pneumatic Cam Valves Regulate Grinder Feed
By W. Garberding May p 98
Pressure Switches Sequence Framing Press
By Joseph S. Lohman Sep. p 106

PUMPS

Air-Driven Oil Pump for Pressures to 10,000 psi—Fluid Power in action June p 40
Designing a Reciprocating Pump With Fluid Power
By Everett A. Krute June p 106
Dual Pumps Drive Pulp Baler—Fluid Power in Action Mar. p 28
Hydraulic Substitutes for the World's Best Pump
By Adair Rogers Feb. p 88
My Gal Sal Out of Cold Storage Mar. p 117
Pressure-Compensated Pump Pushes Auger Evenly—Fluid Power in Action Apr. p 22
Pumps, Fluid Motors, & Accumulators—Fluid Power Products Review Jan. p 216
Pumps, Hydraulic—Quick Guide to Product Selection Jan. p 127
Pumps, Motors, & Air Compressors—Aerospace Products Jan. p 270
Rotating Casing Shrinks Size and Weight of Hydroplanetary Gyrobrake
By M. Shachter Sep. p 120
Three Pumps Supply Hydraulic Crane—Fluid Power in Action June p 28
Toward Excellence in System Design: A Case Study
By Irving Kublin July p 101
Using an 18-ft-Stroke Cylinder—Fluid Power in Action Apr. p 30
Variable/Fixed Pumps Advance Tunneling Machine
By A. L. Gustafson June p 96

SERVO SYSTEMS & COMPONENTS

Adding Vibration to Linear Motion
By James H. Meyer Apr. p 130
Digital Techniques in Fluid Power Engineering
By J. C. Wells Sep. p 108
Horizontal Tail Servoactuator Keeps It Up
By W. O. Lee Dec. p 88
Hypro-Mechanical Servo Sweeps F-111 Wings
By R. C. Alden Dec. p 77
Improving Servo Performance
By Joseph L. Poggie Mar. p 87
Servovalve/Photosensor Guidance System For Machine Tracking Head
By B. Wm. Long June p 100
Servovalves—Quick Guide to Product Selection Jan. p 137
Which Servo System for Missile Control?
By H. J. Dickinson Oct. p 129

TRAINING, TEST, & EDUCATIONAL EQUIPMENT & MAINTENANCE

A Do-It-Yourself Training Bench
By Michael J. Rabins Aug. p 124
Experiment with Fluidics Laboratory—Fluid Power in Action Nov. p 24
Focus on Fluid Power Education Aug. p 85
Hydraulic Service Tips
By A. Reed Schroeder Mar. p 108
Launcher Pressure Surges Studied on Simulator
By A. Wade Brock Mar. p 118
Shock Absorbers Stop Missile Test Platform—Fluid Power in Action Nov. p 26
Stopper Plug Simplifies Hydrostatic Testing—Fluid Power in Action Feb. p 16
Voltage Blocks, Releases Flow in Valveless Vibrator July p 126

VALVES

Air Does all the Work in Automatic Assembly Machine
By Alfred J. Jacobs July p 114
Control Valve Standards Feb. p 30
Designing a Reciprocating Pump With Fluid Power
By Everett A. Krute June p 106
Differential Pilot Valves Solve Vibration Problems
By Robert W. Strohmeyer Apr. p 128
Equivalent Line Lengths for Friction Losses of Fittings and Valves
By Robert L. Peters, Phd Sep. p 128
Flow Divider Spreads Salt Electrically—Fluid Power in Action Oct. p 38
Hyraulics Produce Radiation Bursts
By Kurt Pollak Nov. p 104
Hydraulic Suspension Stabilizes Cargo Loader
By Alex Bloch June p 102
Instrument Air Controls High Thrust Hydraulic Actuator
By E. F. Holben June p 91
Interlock Valve Makes Pressure Tester Safe
By Kenneth Payne Apr. p 93
Nitrogen Powers Little Joe's Open Hydraulic System
By Ronald S. Oberst July p 121
Pneumatic Cam Valves Regulate Grinder Feed
By W. Garberding May p 98
Pneumatic Logic at Work: Priority Circuits
By E. L. Holbrook Apr. p 136
Remote Air Pushbuttons Control Hydraulic Circuit
By William H. Lucas July p 116
Solenoid Valves Control Indexing Slide Table—Fluid Power in Action Aug. p 30
Valve Prevents Fluid Mixing Between Systems
By J. R. Crissey and W. A. Lansing Apr. p 146
Valve Improves Hydraulic Braking System—Fluid Power in Action Aug. p 20
Valves—Aerospace Products Jan. p 279
Valves, Air & General Purpose—Fluid Power Products Review Jan. p 233
Valves, Directional Control—Quick Guide to Product Selection Jan. p 101
Valves, Flow Control—Quick Guide to Product Selection Jan. p 107
Valves, Hydraulic—Fluid Power Products Review Jan. p 244
Valves, Pressure Control—Quick Guide to Product Selection Jan. p 120

Versatile Air Valve Times Forging Machine
By Ray Kull Mar. p 105

AUTHOR INDEX

Alden, R. C.
Hypro-Mechanical Servo Sweeps F-111 Wings Dec. p 77
Allen, Earle F.
Cylinder brake is failsafe Feb. p 84
Bailey, Reginald John
Use air pilot circuits for memory Nov. p 95
Bangs, Scholer
Aerospace News. Scientist pioneers electrohydraulic modulation using Winslow effect Sept. p 146
Bloch, Alex
Hydraulic suspension stabilizes cargo loader June p 102
Bloom, John C.
The first brazed aircraft hydraulic system June p 115
Brennison, Edward
Fitting an accumulator to APU starting requirements May p 131
Brock, A. Wade
Launcher pressure surges studied on simulator Mar. p 118
Broomall, Robert M.
Make-up oil keeps cylinders synchronized May p 101
Butler, Frank
What you should know about O-rings .. June p 109
Caplan, Frank
Nomograph: determining friction of air in steel pipe May p 114
Carr, Paul
Ship's cargo boom swings to hydraulic tune Apr. p 89
Clark, Dudley S.
Jack-of-all-trades valve improves scissors lift design Nov. p 104
Crackwell, Frederick R.
The Buffalo: a plane with tactical hydraulics Feb. p 94
Crissey, J. R.
Charge many accumulators from one location Oct. p 155
Valve connects and protects aircraft hydraulic systems Apr. p 146
Dickinson, H. J.
Which servo system for missile control? Oct. p 129
di Dio, G. R.
Combination transmission lets truck go fast and slow Mar. p 92
Flock, Henry H.
Cushioning in pneumatic cylinders July p 110
Garberding, W.
Pneumatic cam valves regulate grinder feed May p 98
Gesell, W. F.
Designing a fluidic control system May p 117
Gluskin, Richard S.
The first fluidic-controlled locomotive June p 85
Goldoftas, Tobi
Conditioning your compressed air
Part 1— Compressors and associated equipment Mar. p 81
Part 2— Dryers and dehydrators May p 104
Part 3— Distribution systems & accessories July p 106
What you should know about indicating filters Nov. p 112
Golze, Roy R.
Let's design a variable speed rotary drive
Part 1 May p 125
Part 2 Sep. p 103
Goodwin, R. Wendell
Designing open-loop on-off actuators Oct. p 148
Hall, Philip F.
Diagram analysis simplifies system design Apr. p 95
Hamilton, M. J.
Hydraulic gimbaling in space Nov. p 119
Henke, Russ
Six steps to machine analysis for fluid power design Oct. p 136
Hesse, William E.
Ship's cargo boom swings to hydraulic tune Apr. p 89
Hiltner, Luke
What you should know about seal compounds Mar. p 94
Hodska, Nicholas S.
Fitting an accumulator to APU starting requirements May p 131
Holben, E. F.
Instrument air controls high thrust hydraulic actuator June p 91
Holbrook, E. L.
Pneumatic logic at work: priority circuits Apr. p 136
Jacobs, Alfred J.
Air does all the work in automatic assembly machine July p 114
Jacobs, Edwin
Conditioning your compressed air
Part 4—Air line filters and lubricators Oct. p 142
Part 5—Know your pressure regulators Nov. p 89
New materials for seals. Part 1 Aug. p 119
Jones, Harry
What's the cost of using fire-resistant fluids? Sept. p 131
Krute, Everette A.
Designing a reciprocating with fluid power June p 106
Kublin, Irving
Toward excellence in system design: a case study July p 101
Kull, Ray
Versatile air valve times forging machine Mar. p 105
Lankester, John A.
Radial fluid motors bore 17-ft-dia hole Apr. p 125
Lansing, W. A.
Valve connects and protects aircraft hydraulic systems Apr. p 146
Lee, W. O.
Horizontal Tail Servoactuator Keeps It Up Dec. p 88
Lefer, Henry
Let's look at fluidics
Part 3—What can fluidics do? Feb. p 102
Lindberg, Gene
Dirty oil: the discovery and application of the Winslow effect Sept. p 144
Lohman, Joseph S.
Pressure switches sequence framing press Sept. p 106
Long, B. William
Servovalve/photosensor guidance system for machine tracking head June p 100
Lowe, Howell C.
Design of a hydraulic drive for a computer memory Oct. p 122
Lucas, William H.
Remote air pushbuttons control hydraulic circuit July p 116
Lueth, Juergen H.
Analogies between electrical and fluid logic control elements Nov. p 98
Meyer, Charles H.
The first fluidic-controlled locomotive June p 85
Meyer, James H.
Adding vibration to linear motion Apr. p 130
Monaghan, Alfred C.
Simple pneumatic circuit wraps complex shapes Sept. p 135
Morris, Allan E.
Machine tool fluid power today Feb. p 65
Morton, Maurice
Polymer chemistry explains plastics and elastomers Aug. p 120
Oberst, Ronald S.
Nitrogen powers Little Joe's open hydraulic system July p 121
O'Brien, A. J.
Hydrostatic drive gives small aircraft tractor a mighty pull May p 93
Parsons, R. N.
Spoilers—Hydraulics in Aerospace Dec. p 95
Pass, N. N.
Hot Aircraft—Cool Hydraulics Dec. p 92
Payne, Kenneth
Interlock valve makes pressure tester safe Apr. p 93
Peters, Robert L.
Equivalent line lengths for friction losses of fittings and valves Sept. p 128
Petersen, Rudolph
Airborne flow indicator is contamination-tolerant Aug. p 127
Pinkstaff, Carlos
Fluidics made easy: a conveyor system Mar. p 90
Pistorius, Albert
Optimum sequencing with pressure and limit switches June p 94
Poggie, Joseph L.
Improving servo performance Mar. p 87
Polentz, Lloyd M.
Add a component to your compressed air system Sept. p 117
How pressure drop and pipe lengths affect air flow Mar. p 110
Pollak, Kurt
Hydraulics product radiation bursts Nov. p 108
Rabins, Michael J.
A do-it-yourself training bench Aug. p 124
Robinson, Norman F.
The first brazed aircraft hydraulic system June p 115
Rogers, Adair
Hydraulic substitutes for the world's best pump Feb. p 88
St. Amour, C. R.
How compression set affects O-ring selection Apr. p 132
Schrey, Walter M.
How we converted to water-emulsion fluid Mar. p 113
Schroeder, A. Reed
Hydraulic service tips Mar. p 108
Shachter, M.
Rotating casing shrinks size and weight of hydroplanetary gyrobrake Sept. p 120
Slover, P. J.
Combined landing gear and speed brake systems solve location problem Dec. p 98
Strandrud, Halvor T.
Electric-field valves inside cylinder control vibrator Sept. p 139
Strohmeyer, Robert W.
Differential pilot valves solve vibration problems Apr. p 128
Watson, W. H.
The F-111 Hydraulic Power Distribution Dec. p 82
The F-111 Power supply Dec. p 84
Wells, J. C.
Digital techniques in fluid power engineering Sept. p 108
White, Darwin K.
Pilots Report—Brakes OK. Dec. p 102